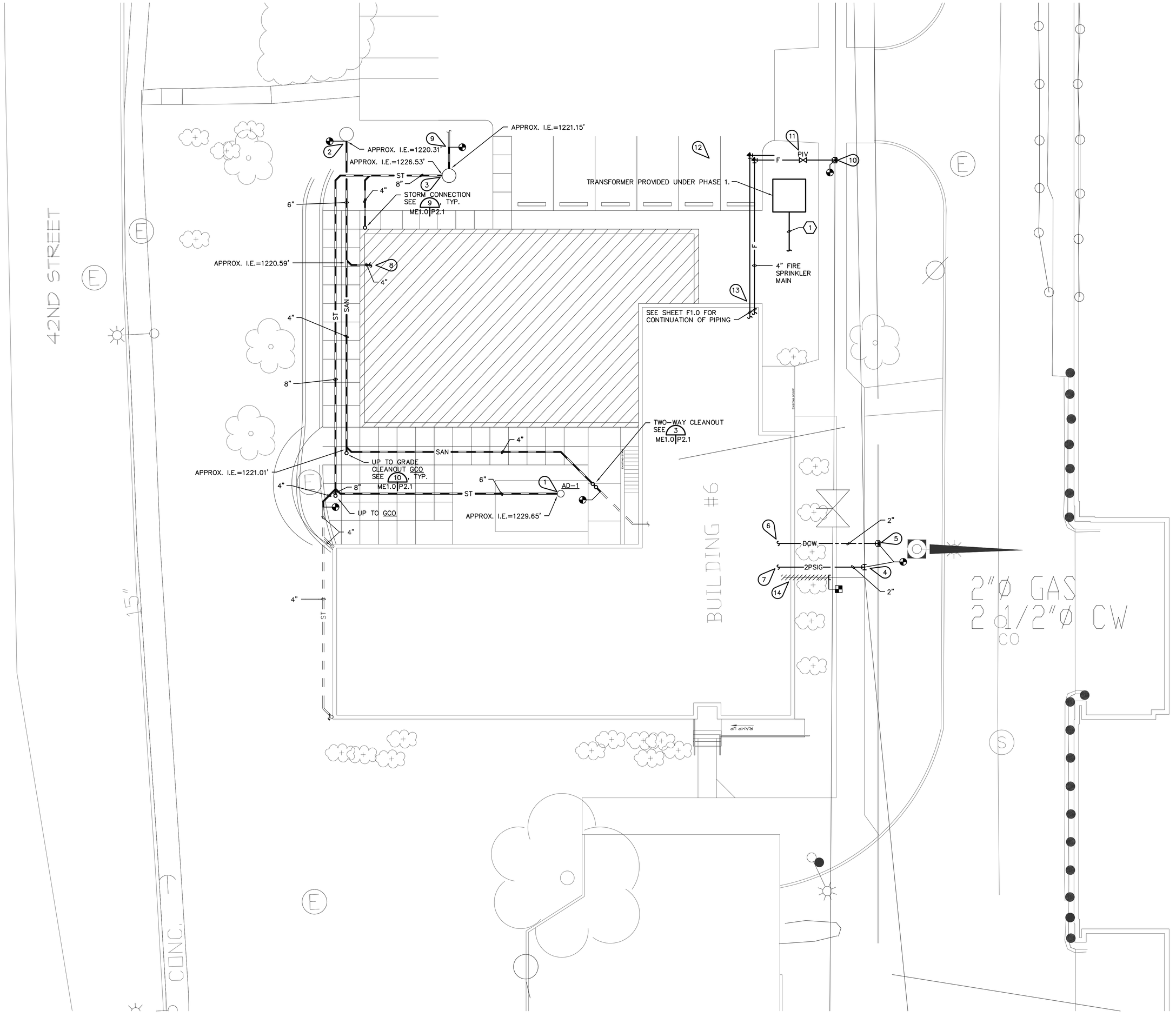
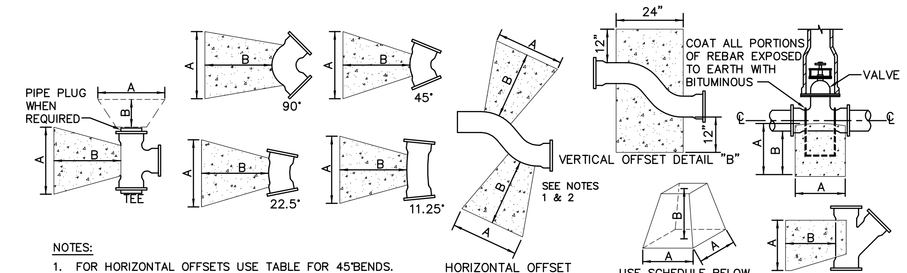


MECHANICAL KEYNOTES: (⬡)

1. NEW 6" STORM LINE FROM NEW AREA DRAIN CATCH BASIN AD-1. SET RIM ELEVATION AT 1232.15'. **SEE DETAIL 15/ME1.0/P2.1.**
2. CONNECT NEW 6" STORM LINE TO SANITARY MANHOLE INSTALLED AS PART OF SITE UTILITY CORRIDOR PHASE.
3. NEW STORM MANHOLE IN THIS APPROXIMATE LOCATION. SET RIM ELEVATION AT 1231.21'. **SEE DETAIL 16/ME1.0/P2.1.**
4. CONNECT NEW 1" GAS LINE TO EXISTING GAS LINE IN STREET. TOTAL CONNECTED LOAD: 861 CFH.
5. CONNECT NEW 2" DOMESTIC COLD WATER LINE TO EXISTING 2-1/2" DCW LINE IN STREET. PROVIDE A THRUST BLOCK AT TEE CONNECTION. SEE DETAIL 1 ON THIS SHEET FOR THRUST BLOCK REQUIREMENTS.
6. SEE SHEET P1.0 FOR CONTINUATION OF DOMESTIC COLD WATER PIPING IN BUILDING.
7. SEE SHEET P1.0 FOR CONTINUATION OF GAS PIPING IN BUILDING.
8. SEE SHEET P1.0 FOR CONTINUATION OF 4" SANITARY PIPING IN BUILDING.
9. CONNECT NEW 8" STORM TO EXISTING 8" STORM LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND INVERT ELEVATION OF EXISTING STORM LINE.
10. CONNECT NEW 4" FIRE SPRINKLER MAIN TO EXISTING 10" WATER MAIN. PROVIDE CONCRETE THRUST BLOCK AT TEE CONNECTION AS SHOWN. SEE DETAIL 1 ON THIS SHEET FOR THRUST BLOCK REQUIREMENTS. ROUTE NEW MAIN A MINIMUM OF 5'-0" BELOW GRADE TO GET 1' BELOW FROST LINE, AS REQUIRED BY NFPA 24 AND LOCAL PLUMBING CODES.
11. INSTALL POST INDICATOR VALVE (PIV) ON NEW 4" FIRE MAIN AS FAR FROM STRUCTURE AS IS PRACTICAL AND INSTALL 4 PROTECTIVE BOLLARDS AROUND PIV AS REQUIRED BY NFPA 24. SEE DETAILS 1, 2 AND 3 ON SHEET F2.1 FOR PIV AND BOLLARD REQUIREMENTS.
12. INSTALL A CONCRETE THRUST BLOCK AT EVERY CHANGE IN FIRE MAIN DIRECTION, AS REQUIRED BY PLUMBING CODES TO PREVENT PIPE SHIFT DUE TO WATER HAMMER. SEE DETAIL 1 ON THIS SHEET FOR THRUST BLOCK REQUIREMENTS.
13. ROUTE NEW FIRE SPRINKLER MAIN THROUGH BASEMENT WALL A MINIMUM OF 5'-0" BELOW GRADE. CORE DRILL OPENING IN BASEMENT WALL AND PROVIDE A MECHANICAL PIPE SLEEVE WITH SEAL IN WALL OPENING. INSTALL A WATER TIGHT SEAL AROUND PIPE OPENING. SEE DRY PIPE FIRE SPRINKLER RISER DETAIL 1 ON SHEET F2.1 FOR PIPE ENTRANCE REQUIREMENTS.
14. REMOVE EXISTING GAS SERVICE ENTRANCE BACK TO DISCONNECTION POINT AND CAP.

ELECTRICAL KEYNOTES (⬡)

1. EXISTING 4" EMPTY CONDUIT STUBBED FROM TRANSFORMER PAD. EXTEND TO NEW MAIN DISTRIBUTION PANEL IN BASEMENT. SEE SHEET E3.1 FOR ADDITIONAL INFORMATION.



NOTES:
1. FOR HORIZONTAL OFFSETS USE TABLE FOR 45°BENDS.
2. FOR VERTICAL OFFSETS USE DETAIL "B" FOR ANCHOR.
3. VOLUMES ON TABLE FIGURED TO NEAREST PORTIONS OF CUBIC YARD.
4. THE THRUST REACTION BLOCKING ARE FIGURED FOR NORMAL BEARING AREA. IN POOR SOIL CONDITION THE DIMENSIONS IN VOLUMES VARY.
5. ANCHORS WILL BE POURED 1 1/2 TIMES THE DIAMETER OF THE PIPE INTO UNDISTURBED EARTH WALLS.

KEY
THE THRUST BLOCKS ON THIS PAGE ARE FIGURED WITH THE INTERNAL PRESSURE OF 250 P.S.I. AND THE SOIL BEARING CAPACITY OF 3000 LBS. PER SQUARE FOOT.

* THRUST BLOCK DIMENSIONS AND VOLUMES SCHEDULE

PIPE SIZE	TEE (VALVE)			90° ELBOW			45° ELBOW			22-1/2° ELBOW			11-1/4° ELBOW		
	FT. IN. A	FT. IN. B	CU. YD. VOL.	FT. IN. A	FT. IN. B	CU. YD. VOL.	FT. IN. A	FT. IN. B	CU. YD. VOL.	FT. IN. A	FT. IN. B	CU. YD. VOL.	FT. IN. A	FT. IN. B	CU. YD. VOL.
4"	1'-6"	1'-6"	1/8(1/8)	1'-6"	1'-6"	1/8	1'-6"	1'-6"	1/8	1'-6"	1'-6"	1/8	1'-6"	1'-6"	1/8
6"	2'-0"	2'-0"	1/4(1/8)	2'-0"	2'-0"	1/4	2'-0"	2'-0"	1/8	1'-6"	1'-6"	1/8	1'-6"	1'-6"	1/8
8"	2'-8"	2'-8"	1/2(1/4)	2'-8"	2'-8"	1/2	2'-0"	2'-0"	1/4	1'-6"	1'-6"	1/8	1'-6"	1'-6"	1/8
10"-12"	3'-6"	3'-0"	3/4(1/2)	3'-6"	3'-0"	3/4	3'-0"	3'-0"	1/2	2'-0"	2'-0"	1/4	2'-0"	2'-0"	1/4

POURED CONCRETE THRUST BLOCK DETAIL 1
NO SCALE — ME1.0 | ME1.0

MECHANICAL/ELECTRICAL SITE PLAN
SCALE 1" = 10'-0"

SEE PLUMBING SITE DEMOLITION WORK ON SHEET PD1.0

Revisions:	Date

IMPORTANT CONTRACTOR'S NOTE

1. ALL CONTRACTORS ARE RESPONSIBLE FOR REVIEWING ENTIRE SET OF DOCUMENTS TO DETERMINE THEIR FULL SCOPE OF WORK. CONTRACTOR SHALL NOT BE ALLOWED EXTRA COSTS DUE TO FAILURE TO REVIEW ENTIRE SET OF DOCUMENTS.
2. ANY USE OF THESE ELECTRONIC DRAWINGS OR SCALING OF THE PRINTED DOCUMENTS ARE DONE SO AT THE CONTRACTORS RISK.

CLH Calvin L. Hinz ARCHITECTS, PC

Calvin L. Hinz Architects, P.C. CLH 2007-37
3705 North 200th Street
Elkhorn, Nebraska 68022
Phone:402.291.6941 Fax: 402.291.9193

Farris Engineering
11239 Chicago Circle
Omaha, Nebraska 68154
402.330.5900 402.330.5902

United Engineering
20507 Nicholas Circle, Suite 108
Elkhorn, Nebraska 68022
402.763.9475 402.763.9527

Kenneth D. Lathrum & Associates, P.C.
1901 N. 51st Street
Omaha, Nebraska 68114
402.391.5861

MECHANICAL/ELECTRICAL SITE PLAN

Construction Documents (100%) Submittal
Approved: _____ Date: _____
Approved: _____ Date: _____
Approved: _____ Date: _____

BUILDING SIX RENOVATION/ ADDITION

VAMC Omaha, NE

Date: FEBRUARY 20, 2009 | Checked by | Drawn by

Project Number: Phase 2 and 4 of 636-07-134
Building Number: SIX
Drawing Number: ME1.0
Dwg. 21 of 37

CLH 2007-37
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231